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SAF-E833-81  
14 DEC 1981

MEMORANDUM FOR: Director, Office of Communications  
VIA : Director, Office of Data Processing/STJ  
FROM : [REDACTED]  
Director, Consolidated SAFE Project Office/ODP  
SUBJECT : SAFE Bus Interface Unit Crypto Module (KGV-16)  
Maintenance

1. During recent efforts to develop maintenance procedures for the SAFE bus interface unit crypto module (KGV-16), the one solution which surfaced that appears to be the most workable would be to utilize OC's classified board repair program. These classified and COMSEC accountable PC boards were designed for compatibility with GenRad automatic test equipment of the type OC currently uses. CSPO engineering personnel, with the assistance of a representative from OC's depot repair facility, reviewed the CM design with Motorola engineers (CM contractor) to verify ATE compatibility in October, 1981.

2. The CM has recently entered into production and the current schedule calls for 50 units to be installed during CY-82 with installations continuing through CY-84 totaling 600 (plus spares). Based on an analysis of the CM failure modes, the estimated MTBF indicates that with 600 units installed, there will be approximately 5-6 failures per seven day, 24 hours per day, week. To facilitate incorporation of these units into OC's system. CSPO would provide the necessary tools (diagnostic software, board fixtures, spares, etc.).

3. CSPO is currently developing integrated WBC maintenance procedures to propose to OC as a package and this would support one portion of those procedures. The GFE KGV-16 is being addressed at this time as the units are in use at TRW and there is no maintenance capability as yet. Please advise OC's position regarding integrating the KGV-16 into your classified board repair system. If additional details are required please have members of your staff contact [REDACTED]

cc:

[REDACTED]

DD/P/ODP

[REDACTED]